



PATENT ABSTRACTS OF JAPAN

(11) Publication number: 05232540 A

(43) Date of publication of application: 10.09.93

(51) Int. Cl

G02F 2/02**H01S 3/10**

(21) Application number: 04036181

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(22) Date of filing: 24.02.92

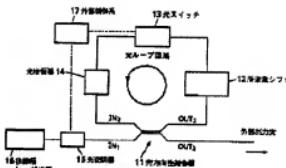
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(54) OPTICAL CIRCUIT

(57) Abstract:

PURPOSE: To obtain the optical circuit which provide high distance resolution loss over a wide measurement distance range and generates a frequency-modulated light wave for light frequency band reflection measurement.

CONSTITUTION: A frequency shifter 12, an optical switch 13, and an optical amplifier 14 are connected in order to the output port OUT₂ of an optical directional coupler 11, and the optical amplifier 14 is connected to an input port IN₂ to form an optical loop circuit. An optical modulator 15 which modulates continuous light from a light source 16 into repetitive pulse light is connected to an input port IN₁, and an external control system 17 synchronously controls the pulse signal outputted from the optical modulator 15 and the ON/OFF state of the optical switch 13 to obtain an external output from an output port OUT₁.



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